



# Compartment Review Presentation

Gaylord Forest Management Unit

Compartment 52219

Entry Year 2017

Acreage: 1,942

County Mackinac

Management Area: Great Lakes Islands - NLP

**Revision Date:** 2015-05-12

**Stand Examiner:** Tricia St. Pierre

## **Legal Description:**

Bois Blanc Island, Section 3, 4, 13, 16, 18, and 19.

## **Identified Planning Goals:**

The immediate goals for Bois Blanc Island are to complete a fully inventory of State-owned land, especially new acquisitions. There are limited marketing opportunities with the challenge of transportation to/from the island, but local harvesting operations and attempts at marketing this timber are planned for the future. The adverse affects of Beech Bark Disease have desecrated much of the island's beech population, so the future will have to consider how to manage dense beech regeneration amongst dead and dying beech and beech snap.

## **Soil and topography:**

The soils are very shallow and are dominated by varying degrees of loamy sand with fairly minimal slopes. Only near the northern shoreline do you have much of a raise in topography, and even that is fairly minimal. There are many old beach ridges (dune and swale complex) found along the shores of Lake Huron. A minimal change in topography can result in the difference between upland and lowland stands.

## **Ownership Patterns, Development, and Land Use in and Around the Compartment:**

There have been many land exchanges, acquisitions, and disposals over Boblo in the past couple years. The DNR is attempting to consolidate their ownership, leading towards less parcelization

## **Unique Natural Features:**

Boblo is home to many unique, rare, threatened, endangered, and special concern species of various kingdoms. Nearby and within this compartment are documented eagles, ospreys, loons, red-shouldered hawks, and the massassauga rattlesnake. Rare plants include dwarf lake iris, calypso orchid, and others.

## **Archeological, Historical, and Cultural Features:**

There are no identified archaeological, historical, or cultural features identified, but there is potential for these to exist.

## **Special Management Designations or Considerations:**

Beech bark disease and deer populations are the two major concerns for this compartment. Many of the stands are being dominated by beech brush, while deer herbivory is suppressing much of the more desirable regeneration from establishing above deer browse height.

## **Watershed and Fisheries Considerations:**

There are no Fisheries comments for this compartment. However, phragmites has populated a few sites along the shorelines of Bois Blanc Island. These have been quickly eradicated, but wind and water seed dissemination will likely continue to establish new population over time. This can have adverse affects on not only the exterior shorelines of Boblo, but it can be devastating for the unique and sensitive internal swamps and lakes. There were no major rivers or streams within this compartment, but there are many channels throughout its entirety given the low topography, shallow soils, and limestone rock.

## **Wildlife Habitat Considerations:**

There are no wildlife habitat considerations to be made given the prominence of cedar swamps as good winter cover for deer and other wildlife. The island also serves as a migratory stopover site for many bird species.

## **Mineral Resource and Development Concerns and/or Restrictions**

Lots 13-19, T39N R1 & 2W, Bois Blanc Island, Mackinac Co.

Surface sediments consist primarily of lacustrine sand and gravel. The glacial drift thickness is thin to discontinuous. The Devonian Bois Blanc Formation and Silurian Salina Group subcrop below the glacial drift. The Bois Blanc Formation and Salina Group are quarried for stone eslewhere in the state. A gravel pit is located on Lot 13 (State) and potential is possible in some areas. The nearest oil and gas production, the Niagaran Reef Trend, is located many miles to the south. There is no known oil and gas potential in the area.

**Vehicle Access:**

There is fairly decent access to the perimeters of some of these compartments, but not in their entirety. Internal access is limited by few roads and many natural obstacles, like swamps.

**Survey Needs:**

There are no essential survey matters in this compartment, but there are few corners that have actually been located. With new acquisitions and disposals, surveying might become more practical/necessary if any significant commercial logging activity occurs in the future.

**Recreational Facilities and Opportunities:**

There is a rustic campground within the northeast corner of section 13, and ORV use is popular in and around the island, although ORV use along the shoreline is prohibited.

**Fire Protection:**

There are few, if any, fire-dependent or highly volatile ecosystems within this compartment. Water is fairly accessible, although the lack of infrastructure could hinder suppression activities.

**Additional Compartment Information:**

No additional comments.

**The following reports from the Inventory are attached:**

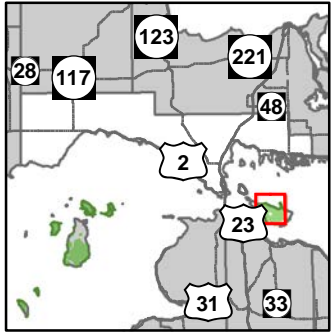
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

**The following information is displayed, where pertinent, on the attached compartment maps:**

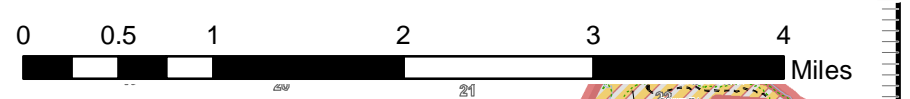
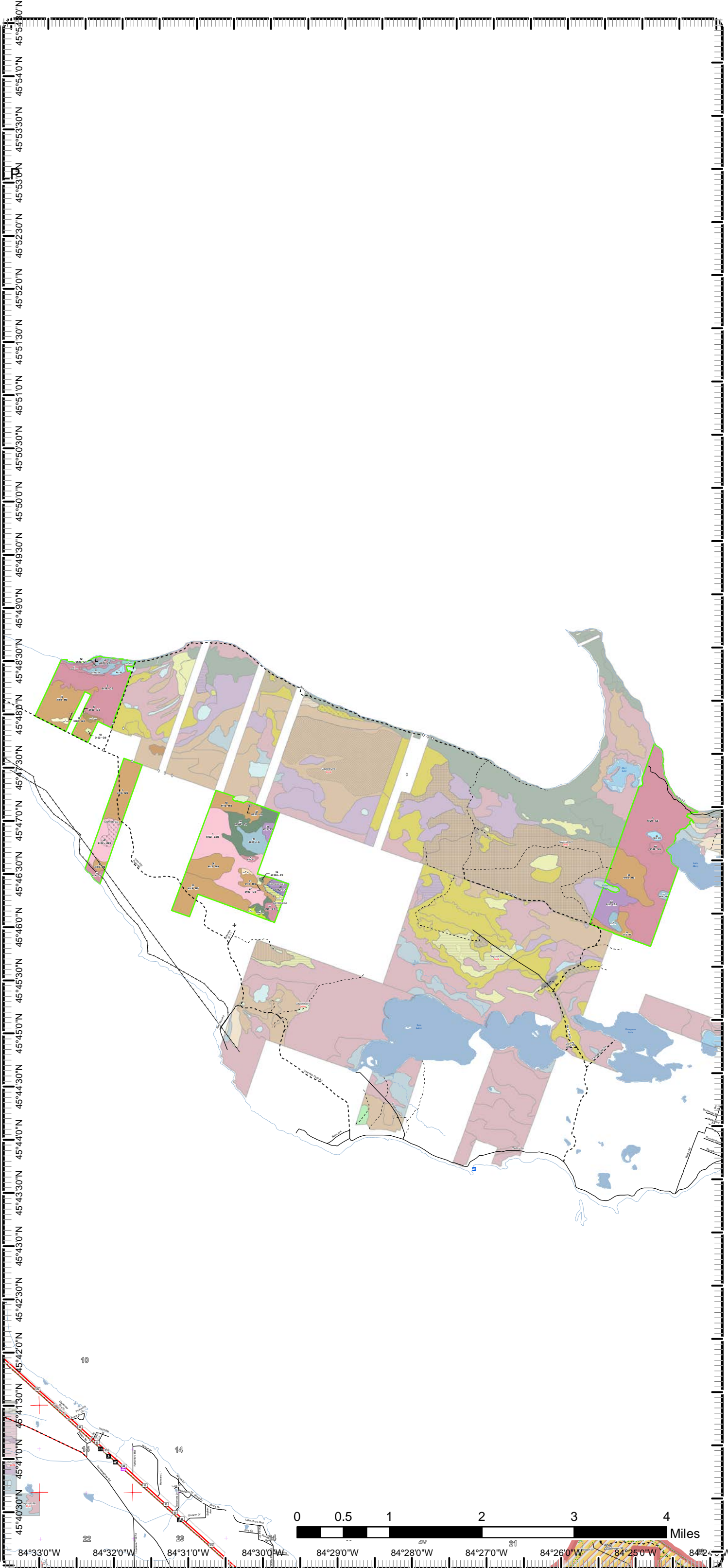
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

# Cover Type & Treatments Map

Compartment: 219  
 T39N,R02W, Sec. 13, 17, 18  
 T39N,R01W, Sec. 4  
 County: Mackinac  
 Unit: Gaylord  
 Mgmt Area: Great Lakes Islands - N  
 YOE: 2017  
 Acres: 1942 GIS Calculated  
 Examiner: Tricia St. Pierre  
 Map Revised: 3/24/2016  
 Map Phase: Post-Review



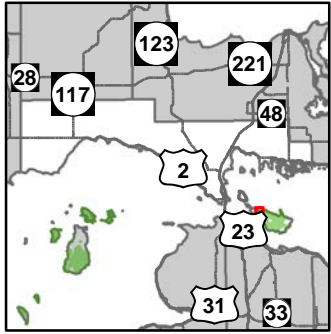
- ◇ Field Grade GPS Corners
- ✈ Airport
- Paved Roads
- Gravel Roads
- Poor Dirt Roads
- Rivers
- ⊕ Powerline
- ▭ Compartment Boundary
- Treatments with Site Conditions (pd)
- ▭ Treatments with Site Conditions
- Treatments
- ▭ Clearcut (w/Reserves)
- ✂ Salvage
- Forest Coverture
- 411 - Northern Hardwood
- 413 - Aspen
- 414 - Other Upland Deciduous
- 423 - Other Upland Conifers
- 429 - Mixed Upland Conifers
- 430 - Upland Mixed Fores
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
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- 310 - Herbaceous Openland
- 330 - Low Density Trees
- 500 - Water
- 622 - Lowland Shrub
- 710 - Sand/Soil
- Lakes



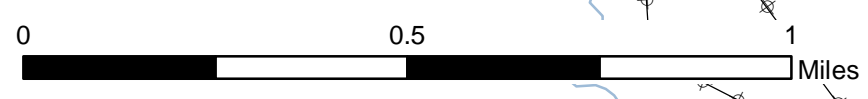
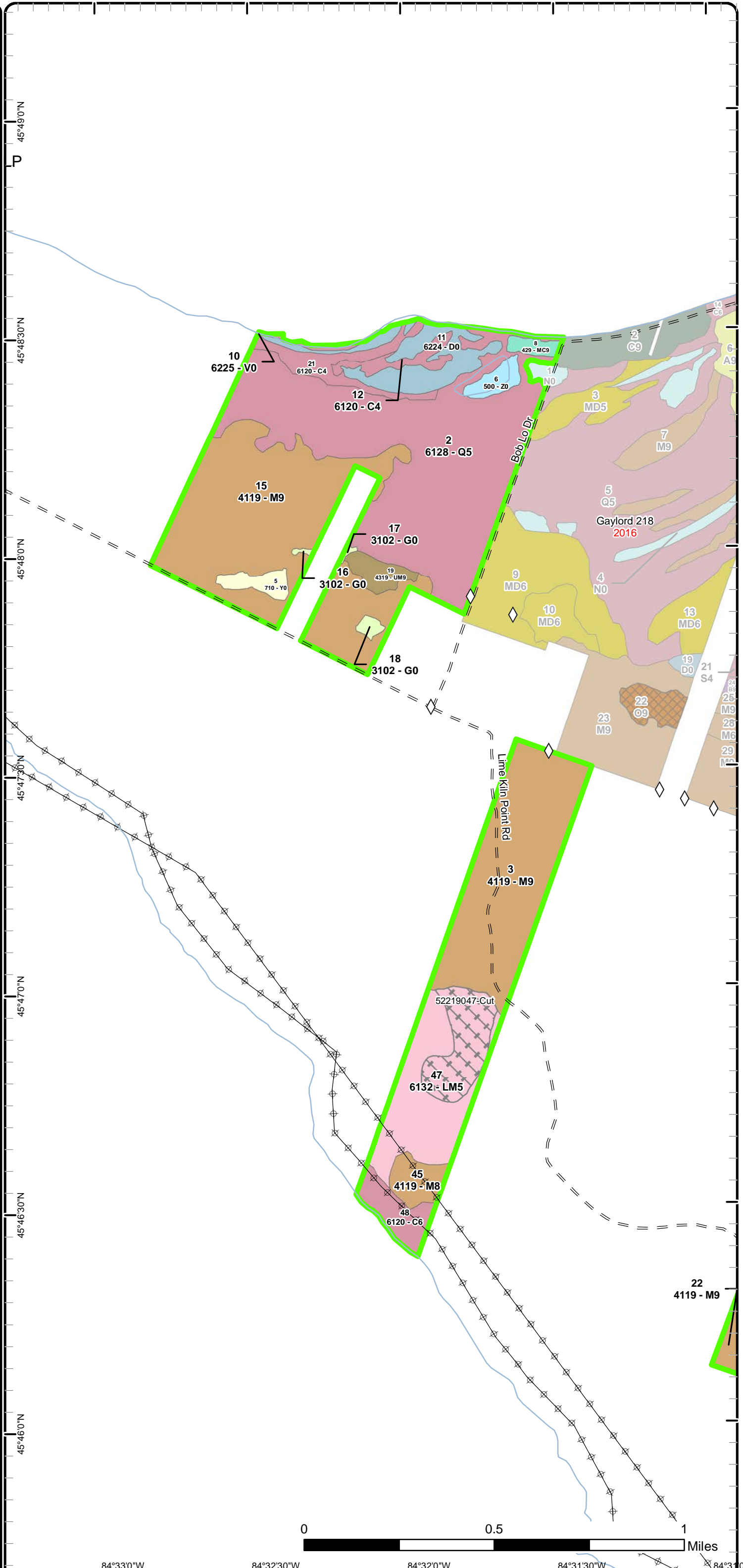
84°33'0"W 84°32'0"W 84°31'0"W 84°30'0"W 84°29'0"W 84°28'0"W 84°27'0"W 84°26'0"W 84°25'0"W 84°24'0"W

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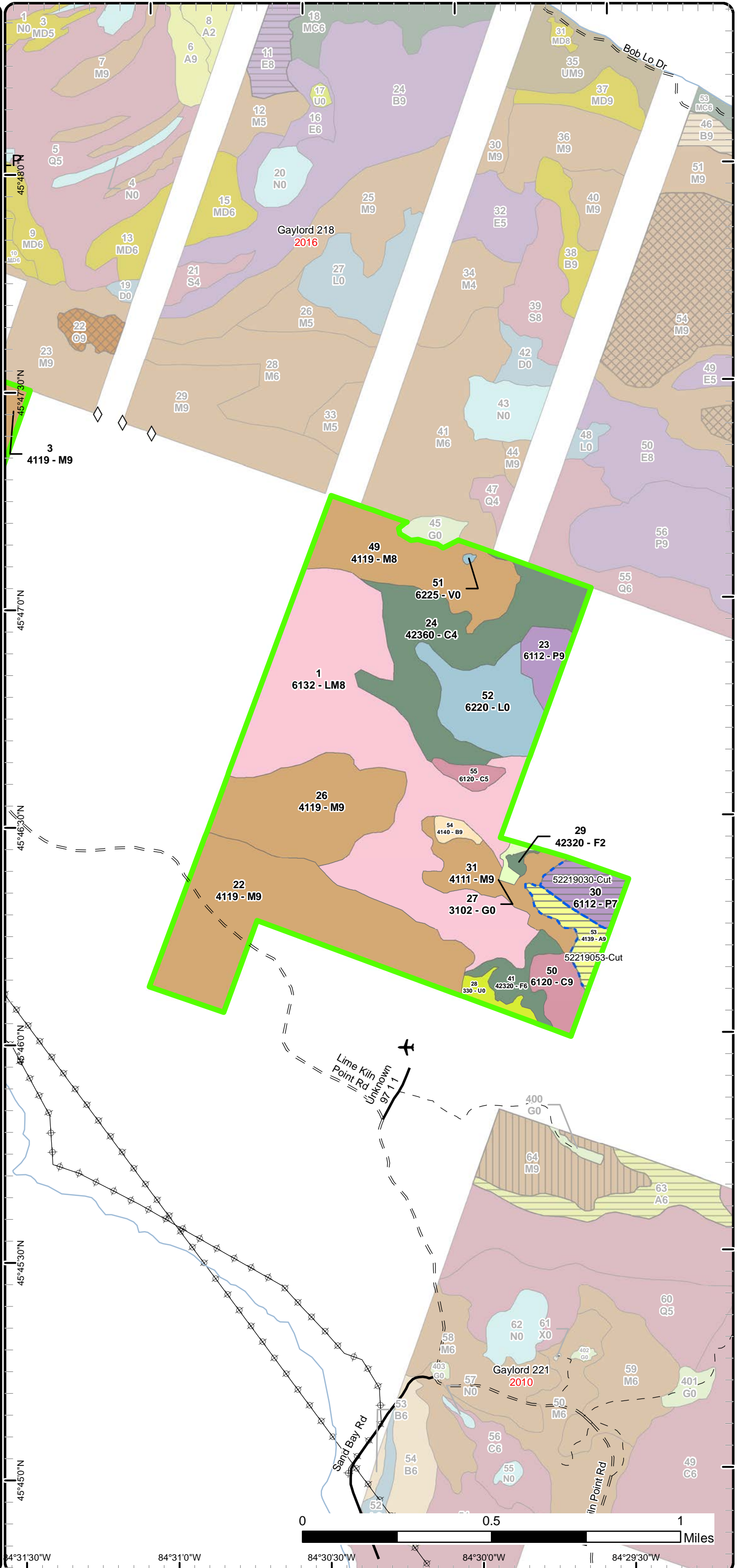
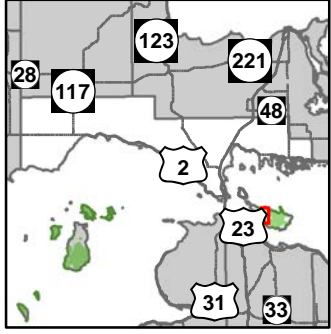
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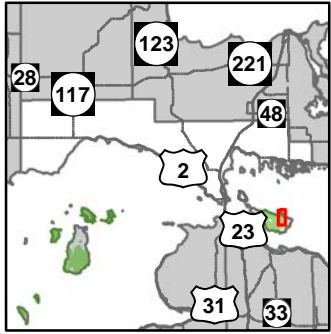


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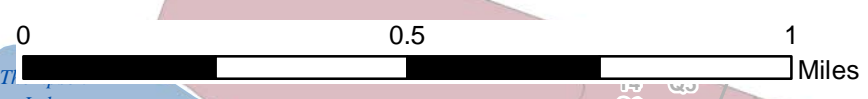
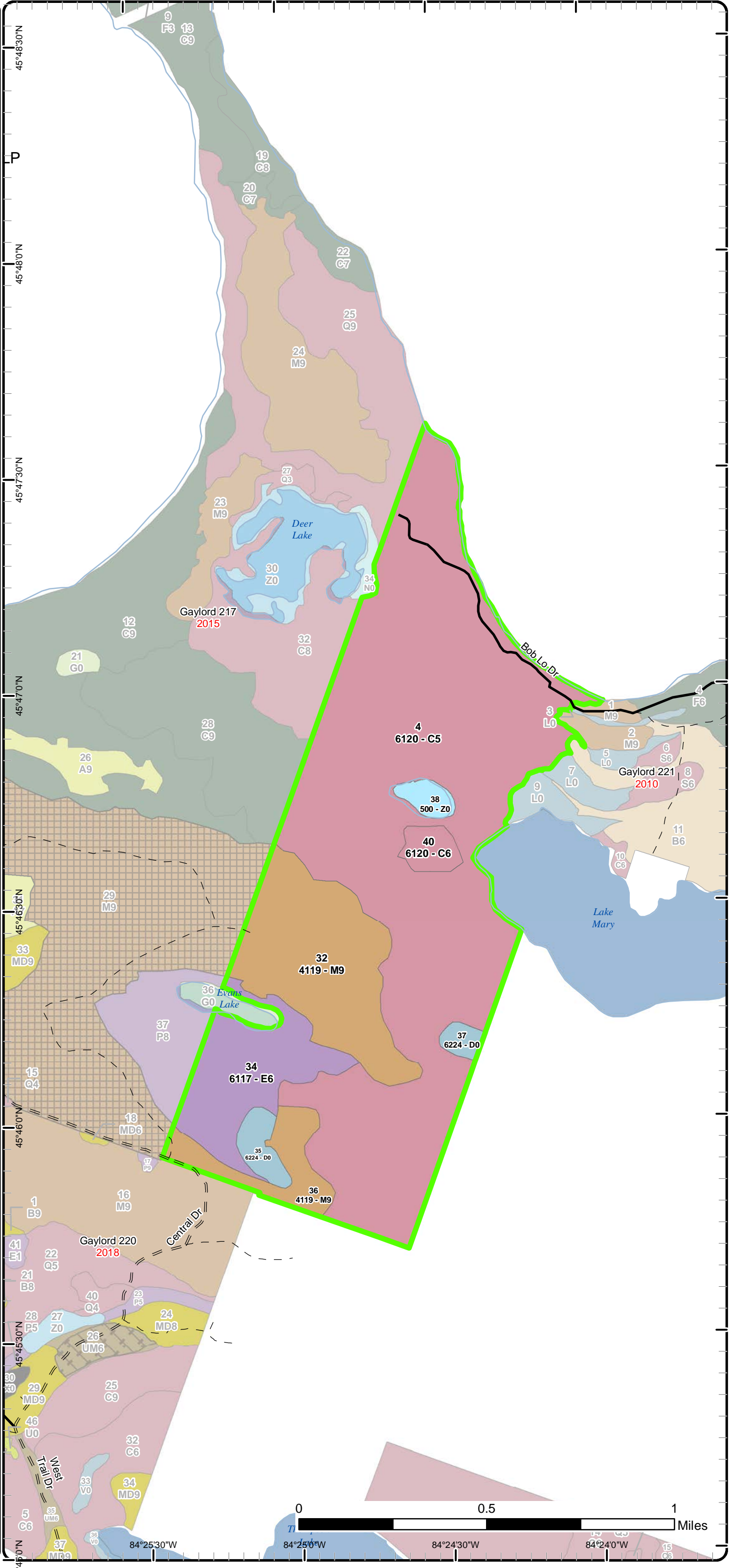
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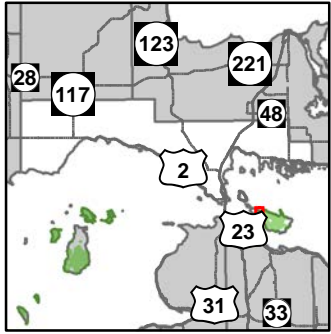
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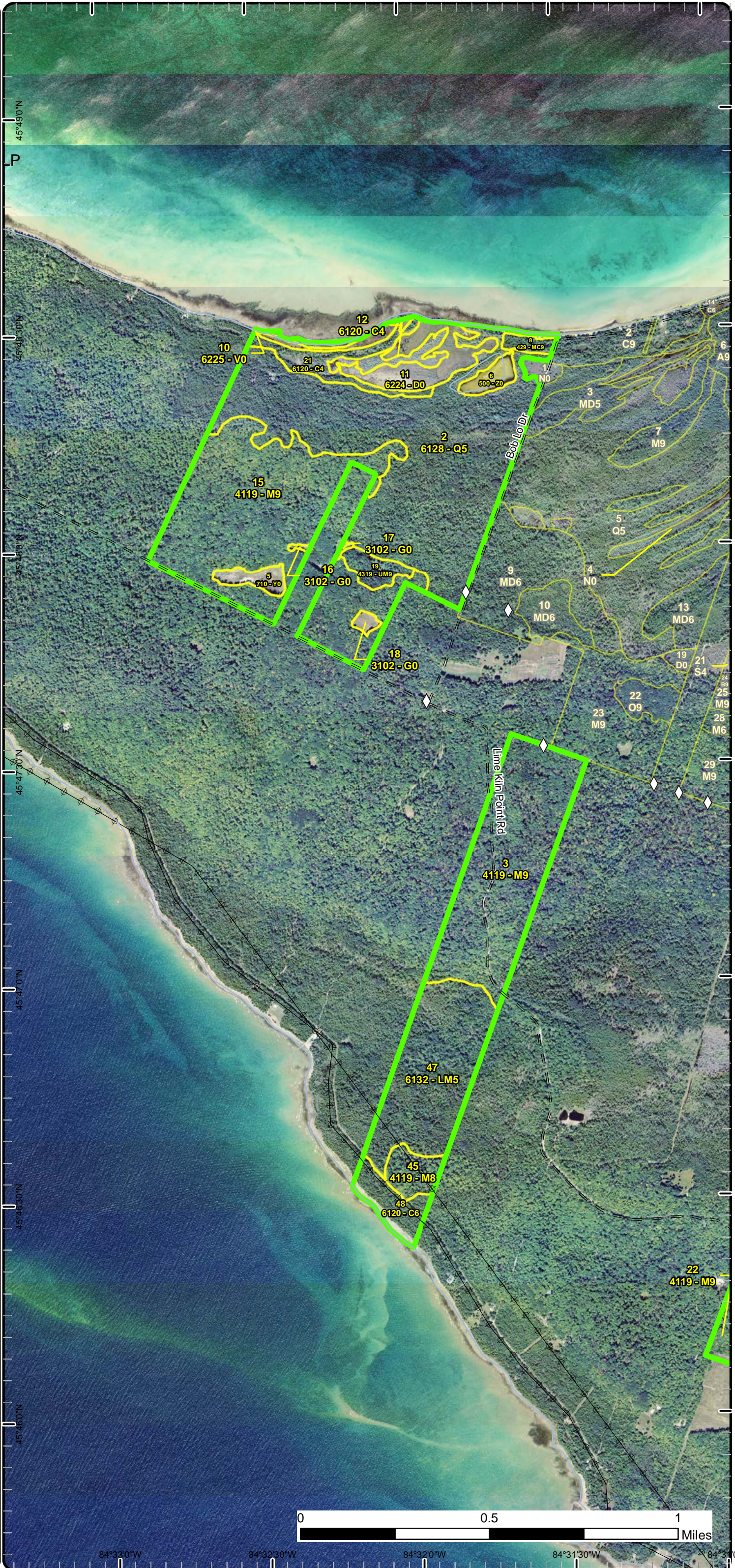
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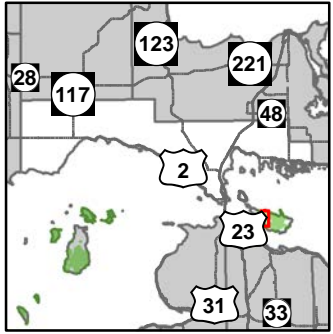
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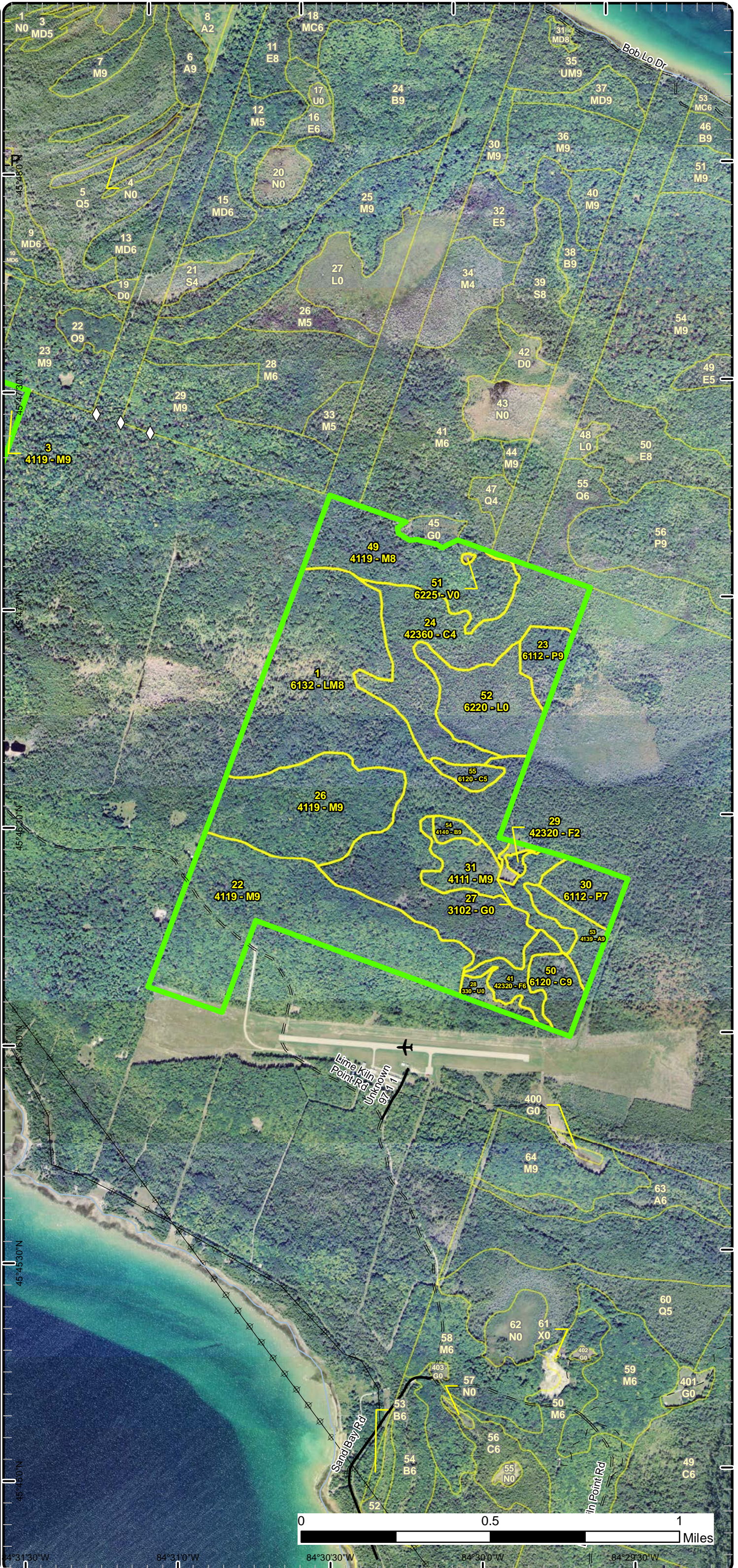
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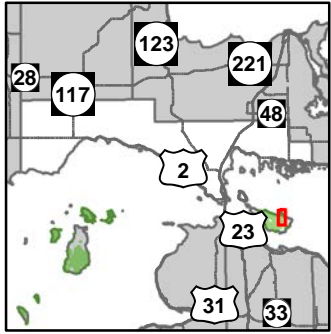
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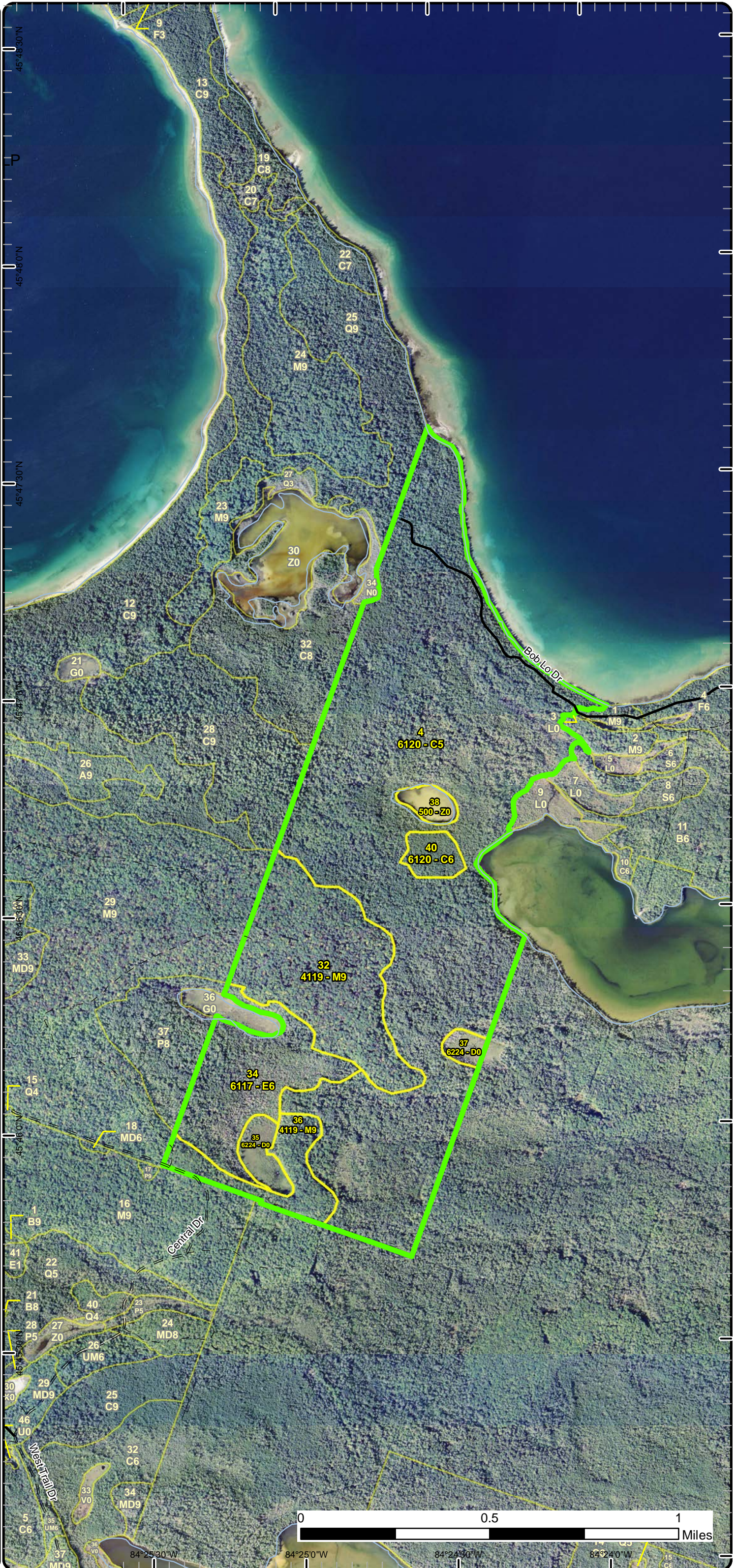


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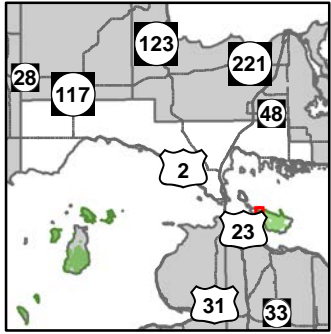


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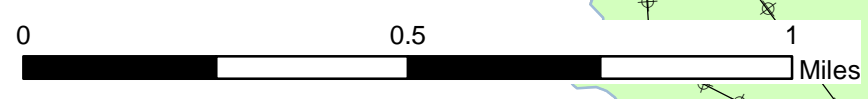
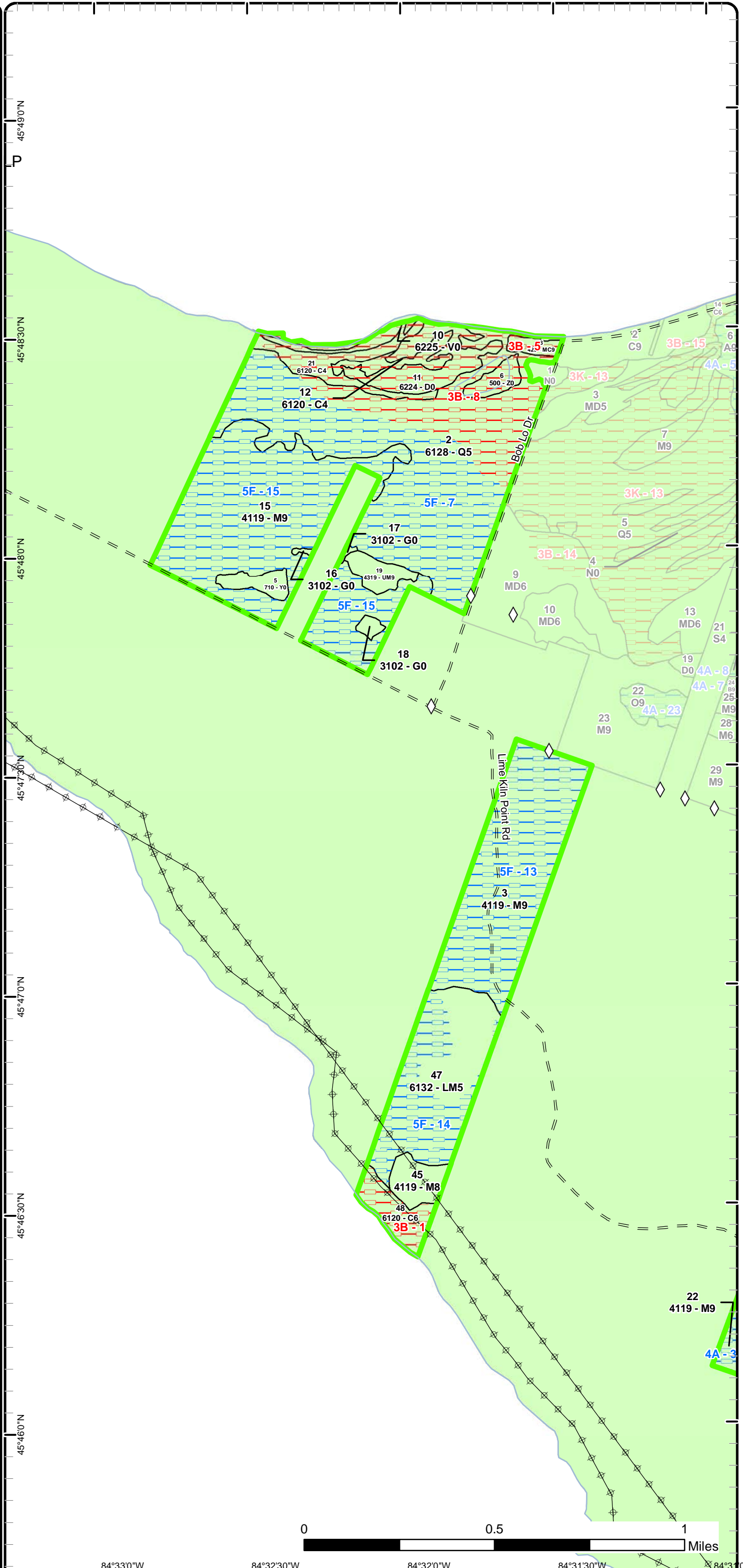


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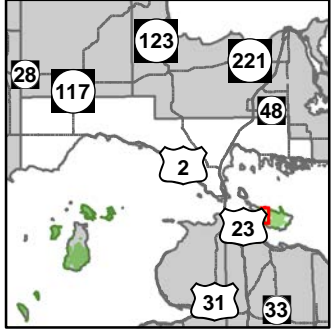
- ◇ Field Grade GPS Corners
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- ▭ Compartment Boundary
- ▭ Available w/ Constraints
- ▭ Unavailable
- 4A: No Markets Available for these Forest Products
- 3B: Threatened, endangered, and special concern species/communities
- ▭ Stand Boundaries
- ▭ Special Conservation Areas
- ▭ Great Lakes Islands
- ▭ Riparian Area



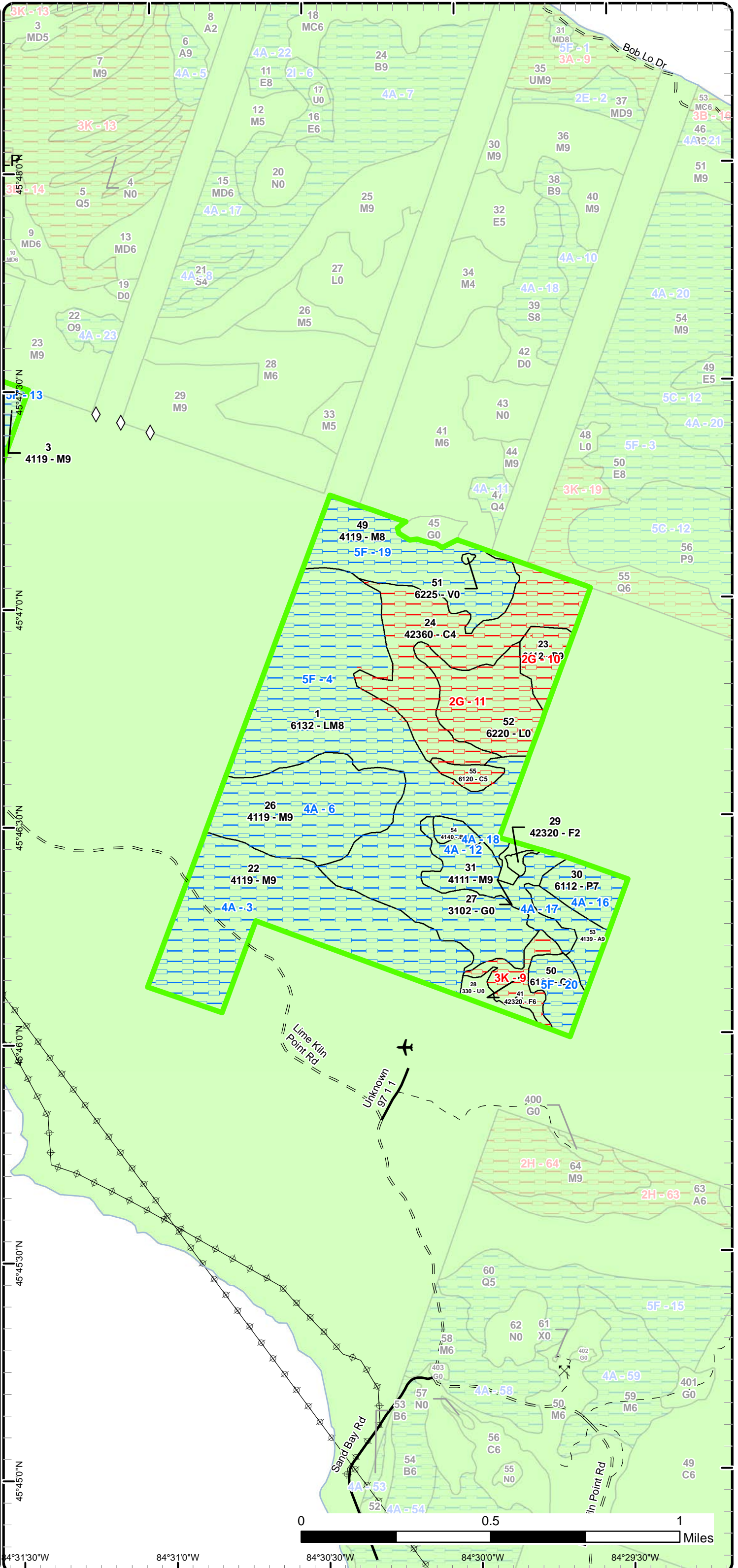
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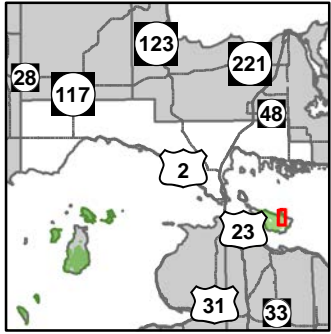


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- 4A: No Markets Available for these Forest Products
- 2G: Too wet (sensitive soils, does not include access issues)
- 3K: Rare or unique landforms
- ▭ Stand Boundaries
- ▭ Special Conservation Areas
- ▭ Great Lakes Islands
- ▭ Riparian Area
- ▭ Sand or Gravel Pit
- ▭ Sand or Gravel Pit

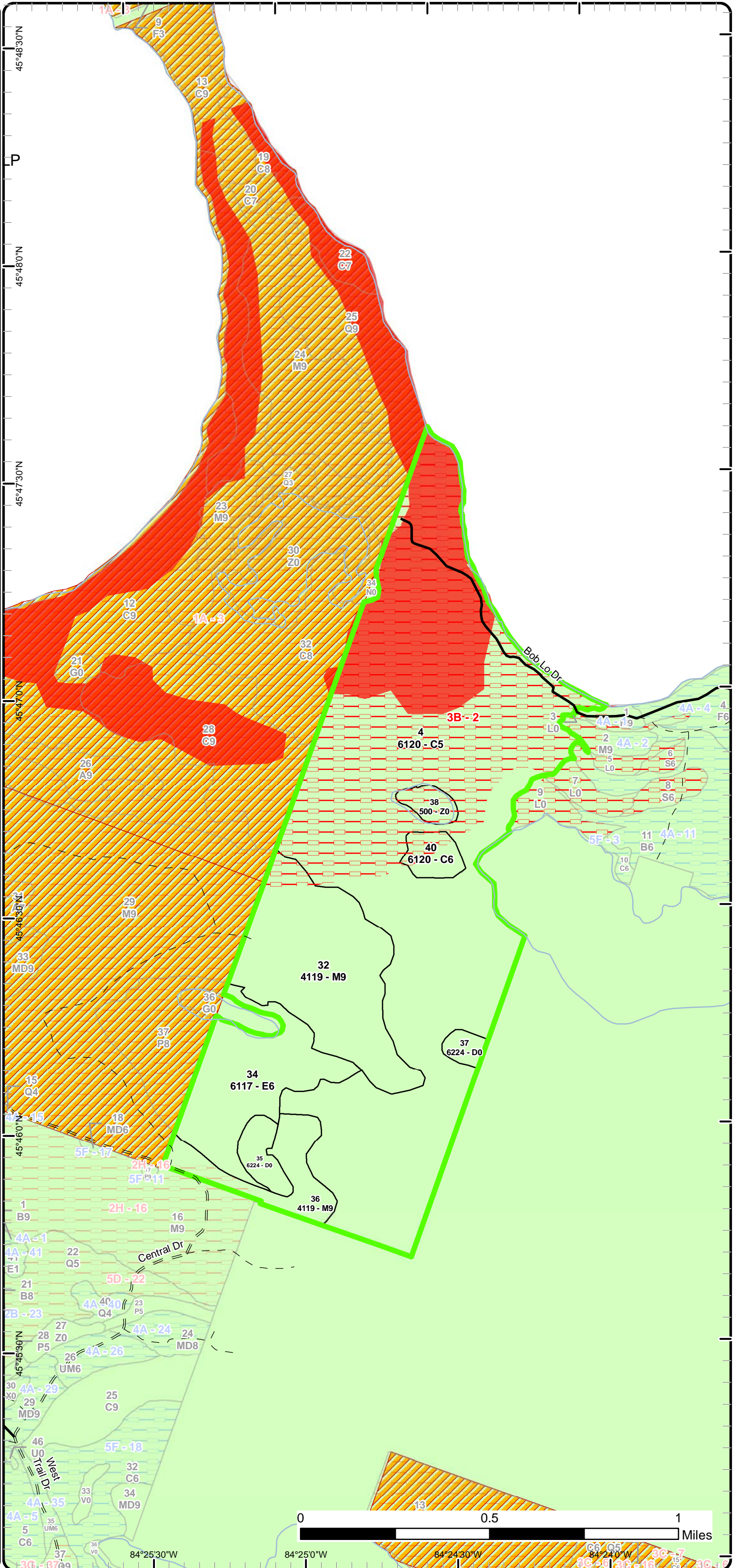


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- Stand Boundaries
- Special Conservation Areas
- Ecological Reference Areas
- Natural Areas Legally Dedicated
- Great Lakes Islands
- Potential Old Growth
- Other SCA (No Category Assigned)





Age Class

	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Aspen	0	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	0	0	12
Bog	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Cedar	0	0	0	0	0	0	7	0	6	13	0	11	0	0	0	0	0	600	637
Herbaceous Openland	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Low-Density Trees	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
Lowland Aspen/Balsam Poplar	0	0	0	0	0	0	0	16	12	0	0	0	0	0	0	0	0	0	28
Lowland Conifers	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	171	171
Lowland Deciduous	0	0	0	0	0	0	0	0	65	0	0	0	0	0	0	0	0	0	65
Lowland Mixed Forest	0	0	0	0	0	0	0	64	0	0	0	0	0	0	0	0	0	193	257
Lowland Shrub	39	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	39
Northern Hardwood	0	0	0	0	0	0	0	175	201	10	247	0	0	0	0	0	0	0	633
Paper Birch	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	4
Sand, Soil	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
Treed Bog	37	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	37
Upland Conifers	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	4
Upland Mixed Forest	0	0	0	0	0	7	0	0	0	0	0	0	0	0	0	0	0	0	7
Upland Spruce/Fir	0	0	2	0	0	0	0	0	13	0	0	0	0	0	0	0	0	0	15
Water	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13
<b>Total</b>	<b>111</b>	<b>0</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>7</b>	<b>7</b>	<b>259</b>	<b>309</b>	<b>23</b>	<b>247</b>	<b>11</b>	<b>0</b>	<b>0</b>	<b>4</b>	<b>0</b>	<b>0</b>	<b>964</b>	<b>1944</b>



## Report 2 – Treatment Summary

Gaylord Mgt. Unit

Compartment 219

Year of Entry:

Acres of Harvest

Total Compartment Acres: 1,942

Commercial Harvest - 23  
 Harvests with Site Condition - 28  
 Next Step Harvest - 0  
 Habitat Cut - 0

### Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overstory Removal	Salvage	Other	Total Acres
Aspen	12	0	0	0	0	0	0	0	0	12
Lowland Aspen/Balsam Poplar	16	0	0	0	0	0	0	0	0	16
Lowland Mixed Forest	0	0	0	0	0	0	23	0	0	23
<b>Total</b>	<b>28</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>23</b>	<b>0</b>	<b>0</b>	<b>51</b>

### Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	51	0	0	0	0	0	0	0	0	51
Next Step	0	0	0	0	0	28	0	0	0	28
<b>Total</b>	<b>51</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>28</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>80</b>



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
30	52219030-Cut	16.0	6112 - Lowland Aspen	Sawtimber Poor	68	1-50	Harvest	Clearcut	6112 - Lowland Aspen	Even-Aged	Draft Proposal

**Habitat Cut: No**      **Site Condition: No Markets**

Prescription Clearcut all trees to 2" dbh. Do not cut any pine or hemlock, if found. Retention will be around and significant wet, sensitive areas. Otherwise, consider retention around edges because of survey needs.  
Specs: THIS STAND WAS FLAGGED WITH THE SBW SALVAGE EFFORT (although it is low risk).

Next Step  
Treatments:

Acceptable Regen: Acceptable regeneration will meet minimum stocking requirements for lowland aspen. This may take longer to accomplish given stand conditions (wetness and low productivity).

Other Comment: This was a very low, wet stand to the best of my recollection. Consider harvesting in a very dry or extremely frozen year. Old next step comments:

Proposed Start Date: 10/01/2016

47	52219047-Cut	22.7	6132 - Mixed Lowland Forest with Cedar	Poletimber Medium	67	81-110	Harvest	Salvage	613 - Lowland Mixed Forest	Even-Aged	Draft Proposal
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**Habitat Cut: No**      **Site Condition:**

Prescription SBW Salvage.  
Specs: Clearcut all trees 2" dbh and greater. Do not cut any cedar, hemlock, or pine. Stand boundaries may vary greatly due to actual stand conditions. Try to focus treatment boundary around pockets with greatest balsam fir occurrence.

Next Step  
Treatments:

Acceptable Regen: Acceptable regeneration will meet minimum stocking requirements for mixed lowland hardwoods with an inclusion of conifer.

Other Comment: Treatment may overlap into M9 to the north if the balsam fir component is merchantable. Old next step comments:

Proposed Start Date: 10/01/2016

53	52219053-Cut	12.4	4139 - Aspen, Mixed Deciduous	Sawtimber Well	75	81-110	Harvest	Clearcut	4139 - Aspen, Mixed Deciduous	Even-Aged	Draft Field Boundary
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**Habitat Cut: No**      **Site Condition: No Markets**

Prescription Clearcut to 2" dbh. Retain underrepresented species. No other area retention due to small stand size.  
Specs:

Next Step  
Treatments:

Acceptable Regen: Acceptable regeneration will satisfy minimum stocking levels for aspen and mixed hardwood.

Other Comment: Old next step comments:

Proposed Start Date: 10/01/2016

**Total Treatment Acreage Proposed: 51.1**

## Report 5 – Site Conditions

Gaylord Mgt. Unit

Compartment: 219

Tricia St. Pierre : Examiner

Year of Entry: 2017

### Availability for Management

Total Acres	Acres Available	Acres Avail With Condition	Acres Not Available
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### Dominant Site Conditions

				4A	5F	1A	2G	2H	3B	3K	
12	0	<b>12</b>	0	<b>Aspen</b>	<b>12</b>						
5	0	<b>0</b>	4	<b>Bog</b>					4		
635	216	<b>14</b>	406	<b>Cedar</b>		14	0	80	326		
5	5	<b>0</b>	0	<b>Herbaceous Openland</b>							
6	6	<b>0</b>	0	<b>Low-Density Trees</b>							
28	0	<b>16</b>	12	<b>Lowland Aspen/Balsam Poplar</b>	<b>16</b>			12			
171	0	<b>117</b>	54	<b>Lowland Conifers</b>		117			54		
65	65	<b>0</b>	0	<b>Lowland Deciduous</b>		0					
256	23	<b>230</b>	3	<b>Lowland Mixed Forest</b>	<b>0</b>	230		3			
39	0	<b>0</b>	38	<b>Lowland Shrub</b>				38			
632	131	<b>491</b>	10	<b>Northern Hardwood</b>	<b>210</b>	281		0	5	5	
4	0	<b>4</b>	0	<b>Paper Birch</b>	<b>4</b>						
6	6	<b>0</b>	0	<b>Sand, Soil</b>							
37	17	<b>0</b>	21	<b>Treed Bog</b>					21		
4	0	<b>0</b>	4	<b>Upland Conifers</b>					4		
7	7	<b>0</b>	0	<b>Upland Mixed Forest</b>							
14	2	<b>0</b>	13	<b>Upland Spruce/Fir</b>						13	
13	0	<b>0</b>	13	<b>Water</b>					13		
1,942	479	<b>884</b>	579	Total Forested Acres	<b>242</b>	642	0	134	5	426	13
	25%	<b>46%</b>	30%	Relative Percent							

*\*Due to limitations in the current Site Conditions Analysis tool, all nonforested acres are considered available. Future development will enable analysis of nonforested types.*

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	<b>Unavailable</b>	<b>3B: Threatened, endangered, and special concern species/communities</b>	13	5F: Evaluated for Forest Health Considerations	Unspecified	Unspecified	Unspecified

**Comments:**

Evaluated for SBW Salvage and declined due to preexisting site condition.



## Report 5 – Site Conditions

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2	<b>Unavailable</b>	<b>3B: Threatened, endangered, and special concern species/communities</b>	353	5F: Evaluated for Forest Health Considerations	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Many threatened, endangered, and/or special concern species and ecosystems exist within this area. Considered for SBW and declined.							
3	<b>Available</b>	<b>4A: No Markets Available for these Forest Products</b>	110	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
4	<b>Available</b>	<b>5F: Evaluated for Forest Health Considerations</b>	190	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Evaluated for SBW Salvage. Difficult to access and highly variable stand. It might be possible, if the adjacent M9s are harvested, to push into the lowland complex, but operability (low, wet ground) and stocking consistencies might prove challenging.							
5	<b>Unavailable</b>	<b>3B: Threatened, endangered, and special concern species/communities</b>	4	3D: Recreational / Scenic values	5F: Evaluated for Forest Health Considerations	Unspecified	Unspecified
<b>Comments:</b> Rustic camp sites in this particular stand, also part of the wooded dune and swale complex. Potential for Iris lacustris on southwest corner along drainage into nearby ZO. Portions of this blanket site condition were evaluated for SBW Salvage efforts and declined due to dominant site conditions.							
6	<b>Available</b>	<b>4A: No Markets Available for these Forest Products</b>	72	5F: Evaluated for Forest Health Considerations	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Considered for SBW Salvage but declined due to species composition, regeneration concerns following a harvest, and other factors.							

## Report 5 – Site Conditions

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7	<b>Available</b>	<b>5F: Evaluated for Forest Health Considerations</b>	118	Unspecified	Unspecified	Unspecified	Unspecified
<p><b>Comments:</b>                      Evaluated for SBW Salvage. Portions of this stand may be too wet/sensitive for harvesting. Inventory comments indicate variability in both topography and composition making salvage unlikely without further reconnaissance.</p>							
8	<b>Unavailable</b>	<b>3B: Threatened, endangered, and special concern species/communities</b>	107	5F: Evaluated for Forest Health Considerations	Unspecified	Unspecified	Unspecified
<p><b>Comments:</b>                      Wooded dune and swale complex with many threatened, endangered, and/or special concern species throughout. Portions of this blanket condition were evaluated and declined for SBW Salvage efforts.</p>							
9	<b>Unavailable</b>	<b>3K: Rare or unique landforms</b>	13	5F: Evaluated for Forest Health Considerations	Unspecified	Unspecified	Unspecified
<p><b>Comments:</b>                      Considered for SBW Salvage but declined due to preexisting site condition.</p>							
10	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	12	2I: Survey needed	5F: Evaluated for Forest Health Considerations	Unspecified	Unspecified
<p><b>Comments:</b>                      Evaluated for SBW Salvage and declined due to dominant site conditions.</p>							
11	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	122	4A: No Markets Available for these Forest Products	5F: Evaluated for Forest Health Considerations	Unspecified	Unspecified
<p><b>Comments:</b>                      Portions of this blanket site condition were evaluated for SBW Salvage and declined due to dominant site conditions and/or low threat of SBW outbreak.</p>							
12	<b>Available</b>	<b>4A: No Markets Available for these Forest Products</b>	28	5F: Evaluated for Forest Health Considerations	Unspecified	Unspecified	Unspecified
<p><b>Comments:</b>                      Stand was evaluated for SBW Salvage and declined due to low risk and regeneration concerns.</p>							

## Report 5 – Site Conditions

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13	<b>Available</b>	<b>5F: Evaluated for Forest Health Considerations</b>	91	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Evaluated for SBW Salvage. Declined due to very low risk of SBW outbreak. There is only a small amount of Balsam Fir in the subcanopy, and it's entirely contained to the southern portion of the stand. If any portions of the stand to the south are harvested, consider removing balsam from this area at the same time.							
14	<b>Available</b>	<b>5F: Evaluated for Forest Health Considerations</b>	41	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Evaluated for SBW Salvage. A portion of this stand was elected for salvage efforts, though other portions of this stand are likely too wet for harvesting. Balsam fir densities might be confined to pockets rather than continuous throughout the stand. Reconnaissance suggested.							
15	<b>Available</b>	<b>5F: Evaluated for Forest Health Considerations</b>	134	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Evaluated for SBW Salvage but declined due to minimal stocking of spruce or fir.							
16	<b>Available</b>	<b>4A: No Markets Available for these Forest Products</b>	16	5F: Evaluated for Forest Health Considerations	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Evaluated for SBW Salvage. I put a treatment on here because it seems to be a good candidate, but I recall this being a very low, wet stand, so I maintained the original (4A) site condition - reconnaissance recommended.							
17	<b>Available</b>	<b>4A: No Markets Available for these Forest Products</b>	12	5F: Evaluated for Forest Health Considerations	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Evaluated for SBW Salvage. Declined due to very low risk, though the existing treatment is still applicable pending access.							
18	<b>Available</b>	<b>4A: No Markets Available for these Forest Products</b>	4	5F: Evaluated for Forest Health Considerations	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Stand was flagged for SBW Salvage but declined due to very low threat.							

## Report 5 – Site Conditions

Gaylord Mgt. Unit

Compartment: 219

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Year of Entry: 2017

19	Available	<b>5F: Evaluated for Forest Health Considerations</b>	56	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Evaluated for SBW Salvage but declined due to low stocking of fir/spruce.							
20	Available	<b>5F: Evaluated for Forest Health Considerations</b>	14	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Evaluated for SBW Salvage but declined due to inaccessibility and lower stocking of balsam fir, although the size classes raise a red flag for salvage.							

Mgt. Unit

Compartment: #Type!

Year of Entry:



## Report 6 – PROPOSED SPECIAL CONSERVATION AREA\* (SCA) DETAILS

\* This is a partial list of SCAs for this compartment. Not included are those areas identified under other Department initiatives (Natural Rivers, Deer Wintering Areas, etc.). Those will be identified in separate, future map and report products.

SCA Name	SCA Category	Detail Type	Recommendation	Acres
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Comments

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**Report 7 – EXISTING SPECIAL CONSERVATION AREA DETAILS**

\* This is a list of SCA's for this compartment along with a 1/4 mile buffer surrounding the compartment. Refer to the Special Conservation Area Map for locations of the below listed Conservation Areas.

ERA = Ecological Reference Area  
HCVA = High Conservation Value Area  
SCA = Special Conservation Area

Conservation Area	Type	Description
SCA	Great Lakes Islands	Great Lakes Islands provide significant habitat for numerous species, including many rare plants and animals, several of which are endemic or largely restricted to the Great Lakes region. Due to their isolation, islands provide good examples of many Great Lakes-associated natural communities and ecosystems, and thus have potential to provide insights for understanding the consequences of human disturbance on the increasingly fragmented ecosystems of the mainland.
SCA	Non-Dedicated Natural Areas and National Natural Landmarks	This category is comprised of those Natural, Wilderness and Wild Areas that have been nominated or proposed for legal dedication, but for which legal dedication by legislature has not occurred. The nomination process is defined by Part 351, Wilderness and Natural Areas, of the Natural Resources and Environmental Protection Act, 1994 PA 451. The program is administered by the DNR. Nominations require the submittal of a Natural Areas Nomination Packet to the DNR. This is an active program, with proposed sites in various stages of review. Final dedication of nominated Natural, Wilderness and Wild Areas is accomplished through legislative action.
HCVA	Legally dedicated Natural Areas, Wilderness or Wild Areas	The nomination process is defined by Part 351, Wilderness and Natural Areas, of the Natural Resources and Environmental Protection Act, 1994 PA 451. The program is administered by the DNR. Nominations require the submittal of a Natural Areas Nomination Packet to the DNR. This is an active program, with proposed sites in various stages of review. Final dedication of nominated Natural, Wilderness and Wild Areas is accomplished through legislative action.
ERA	Ecological Reference Areas	Ecological Reference Areas (ERAs) are high quality examples of natural communities that have been identified as Element Occurrences (EOs) by the Michigan Natural Features Inventory (MNFI) within the context of their natural community classification system. Element Occurrences with viability ranks of A (Excellent) or B (Good) and a Global (G) or State (S) element (rarity) ranking of endangered (1), threatened (2), or rare (3) serve as an initial base of ERAs. They may be located upon any ownership in the State. The system is comprised of individual or associations of natural community types that are managed for restoration and maintenance of natural ecological processes and values. The public may submit recommendations for lands as ERAs using the DNR Conservation Area Recommendation Form.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	6132 - Mixed Lowland Forest with Cedar	Sawtimber Medium	192.8	78	111-140	Highly variable lowland complex. Lots of blow-down.
2	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Medium	171.2	104	81-110	More inventory is needed for this stand. The data represents only a small portion of the stand and more needs to be walked through. There are lots of physical demands when walking through this stand - lots of blow down, water, and thick regen in areas.
3	4119 - Mixed Northern Hardwoods	Sawtimber Well	90.6	65	81-110	No XL Basswood, but MiFi wouldn't accept L/P for a 14" dbh. Stand drops a bit in the south and southeast, picking up a couple red maple and balsam fir. Consider re-drawing stand boundaries with more information. Very dense beech regeneration throughout most of the stand. Paper birch is falling out. This is coming into a fully stocked log-sized stand with a lot of maple in the 10-16" range, except that basal areas are still less dense in areas. This is due in part to beech bark disease mortality, aspen senescence, and pockets of pole timber. Couple red oak along disturbed road edge.
4	6120 - Lowland Cedar	Poletimber Medium	493.9	101	51-80	Remote call on stand. Large lowland cedar complex that would appear to have mixed deciduous, likely aspen and birch, throughout. South end of stand might include a few upland crests of mixed hardwood, conifer.
8	429 - Mixed Upland Conifers	Sawtimber Well	3.6	131	111-140	There are camp sites in this stand. Occasional BAM. Tamarack along shoreline. Black spruce, white cedar, and white pine are also present along shoreline/edge.
12	6120 - Lowland Cedar	Poletimber Poor	6.9	51	1-50	Dead standing timber. Very low and wet. Lots of CWD. Open water in the west; few channels running through stand.
15	4119 - Mixed Northern Hardwoods	Sawtimber Well	134.0	76	81-110	
19	4319 - Mixed Upland Forest	Sawtimber Well	7.3	41	81-110	Stand appears to be an opening, colonized by coniferous species, aspen, and hardwood. Visit for better inventory data.
21	6120 - Lowland Cedar	Poletimber Poor	16.3	66	1-50	Dune and swale complex; old shoreline. Evenly distributed snags throughout stand. Very low and wet; vegetation is intermittent and clumpy. Higher basal areas along the "high" ridges, which are still minimally raised above the water table.
22	4119 - Mixed Northern Hardwoods	Sawtimber Well	115.6	95	111-140	No sapling white ash in the canopy, but it could not be otherwise represented in MiFi. XL Sugar maple are 24" dbh. Trace amounts of quaking aspen, 20" dbh, XL. Beech scale and snap. EAB present. Paper birch and yellow birch falling out. Trace amounts of red maple, white cedar, and quaking aspen. XL sugar maple and beech scattered throughout. Trace amounts of balsam fir saplings in far east. Pole and log sized hemlock present in understory. Sapling and pole sized yellow birch and ironwood also present in understory. Stand is a bit denser to the south of the road.
23	6112 - Lowland Aspen	Sawtimber Well	12.5	78	81-110	Aspen is falling apart. Potentially very wet, seasonally.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
24	42360 - Upland Cedar	Poletimber Poor	75.3	106	1-50	Low and wet. Deteriorating timber, slow growing. Ages are best guess given ring densities. Understory is incorporated into overstory; includes trace balsam fir, paper birch, black ash.
26	4119 - Mixed Northern Hardwoods	Sawtimber Well	66.6	77	81-110	Red oak and beech present in the canopy, <1%. Pocket of hemlock regen/poles; white cedar on north edge of stand dropping down into swamp. Red maple dominates east half, sugar maple dominates west half.
29	42320 - Upland Spruce	Sapling Medium	1.7	16	Immature	Old stump field, converted to forested conifer. Trace white pine, larch, miscellaneous hardwood, ground juniper, black spruce, white spruce, and balsam fir.
30	6112 - Lowland Aspen	Sawtimber Poor	16.0	68	1-50	Sapling and pole balsam fir in subcanopy. Occasional bigtooth aspen, balsam poplar. Much smaller diameter in northeast. Fully stocked understory.
31	4111 - S.Maple, Hard Mast Association	Sawtimber Well	27.6	68	111-140	Pole and sapling ironwood in subcanopy. Heavy browsing on understory. Some XL BTA, 24" dbh. Some larger sugar maple and beech, but mostly log sized and smaller. Dead yellow birch and a trace amount still alive in the canopy. Birch is slowly falling out of this stand.
32	4119 - Mixed Northern Hardwoods	Sawtimber Well	102.2	90	81-110	A continuation of the adjacent (west) hardwood stand. Stand is dominated by sugar maple, beech, and birch, with lesser quantities of red maple, yellow birch, and basswood. Mostly log-sized, mature hardwood; few poles. Occasional conifer component creeping in along edges. Trail runs along the north end of the stand. Regeneration has been dominated by beech brush in these stands, with potential for more advanced sugar maple, occasional striped maple, and balsam fir. I'm sure BBD is prolific.
34	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Well	65.1	71	81-110	Consider adjacent stand composition, this is likely a continuation of lowland mixed deciduous and coniferous species. Stand appears to transition into a less dense, possibly smaller diameter and great number of snags, conifer stand/emergent wetland/treed bog on the eastern half.
36	4119 - Mixed Northern Hardwoods	Sawtimber Well	29.1	90	81-110	Hardwoods on the edge of lowland cedar swamps, most likely a greater inclusion of red maple, birch, and beech with fewer sugar maple and basswood than what is to the west and south. BBD likely.
40	6120 - Lowland Cedar	Poletimber Well	10.5	101	111-140	Likely a dense cedar swamp. Appears to expand further north and east.
41	42320 - Upland Spruce	Poletimber Well	12.8	76	51-80	Old stump field throughout stand. Variable diameters, densities, and species composition, but overwhelmingly spruce.
45	4119 - Mixed Northern Hardwoods	Sawtimber Medium	9.9	86	81-110	Small band of hardwood, aspen along a little plateau just above the water table. This was a quick edge call and more data should be gathered when considering management options.





	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
47	6132 - Mixed Lowland Forest with Cedar	Poletimber Medium	63.7	67	81-110	This stand needs more data collection before management decisions can be made. Inventory was very brief. Check for cedar, white pine in south. Stand converts into lowland mixed softwoods from low-quality, lowland hardwoods in the north.
48	6120 - Lowland Cedar	Poletimber Well	13.0	86	111-140	More data should be collected on this stand. Inventory was brief.
49	4119 - Mixed Northern Hardwoods	Sawtimber Medium	56.4	63	81-110	Upland hardwood giving way to some lowland mixed deciduous/cedar on the edges. Few low pockets. Browsing on regen. Birch falling out. Few scattered aspen clones.
50	6120 - Lowland Cedar	Sawtimber Well	13.8	75	141-170	BAM and paper birch falling out of stand. Pockets of blowdown; larger cedar stumps. Occasional sugar maple. More balsam fir along exterior of stand. Basal areas are variable, ranging from 120-240.
53	4139 - Aspen, Mixed Deciduous	Sawtimber Well	12.4	75	81-110	Stand transitions into mixed aspen-hardwood as you progress west. The north edge drops down into a lowland stand.
54	4140 - Other Upland Deciduous	Sawtimber Well	3.8	69	81-110	*NOTE: stand boundaries are approximate. I did not have good GPS data or imagery to work with for delineating this low pocket of mixed deciduous trees. Quite a few tip-ups. Ground is upland, but could be seasonally wet, depending on precipitation.
55	6120 - Lowland Cedar	Poletimber Medium	5.7	78	141-170	Balsam fir regeneration high in canopy gaps. No seedling/sapling cedar evident in gaos. Occasional white pine (16-18" dbh) and black spruce (12-14" dbh). Larger white cedar diameters to the north.



Stand	Cover Type	Acres	Managed Site	General Comments:
5	710 - Sand, Soil	5.9	No	Gravel Pit.
6	500 - Water	5.7	No	
10	6225 - Bog	4.4	No	Open water, sparse vegetation - mostly on edges. Old shoreline.
11	6224 - Treed Bog	20.7	No	Occasional cedar, spruce, fir colonizing edges. Lowland complex, very wet, channels and pools throughout.
16	3102 - Grass	0.5	No	Non-forested opening being closed in by mixed upland deciduous, few conifer. Potential for old homestead.
17	3102 - Grass	0.5	No	Potential trespass. Road runs from private through north part of stand and into adjacent woods.
18	3102 - Grass	1.8	No	Potentially seasonally wet.
27	3102 - Grass	2.5	No	Encroaching hardwood on west edge. Furrows?? The north half of this stand has more log and pole sized timber, white pine, white spruce, and balsam fir.
28	330 - Low-Density Trees	5.9	No	Trail comes through southeast corner and bisects the majority of the stand. Check ownership records for this stand - it was noted that the Township might have been deeded part of this parcel.
35	6224 - Treed Bog	11.3	No	
37	6224 - Treed Bog	5.4	No	
38	500 - Water	7.2	No	
51	6225 - Bog	0.4	No	
52	6220 - Alder/willow	38.9	No	Flooded shrub field; stream weaves through it. Few cedar, balsam fir, black spruce, and red maple can be found, mostly on the edges of the stand. Old beaver damage throughout stand.